Cube Quest

Active Technology Project (2014 - 2023)

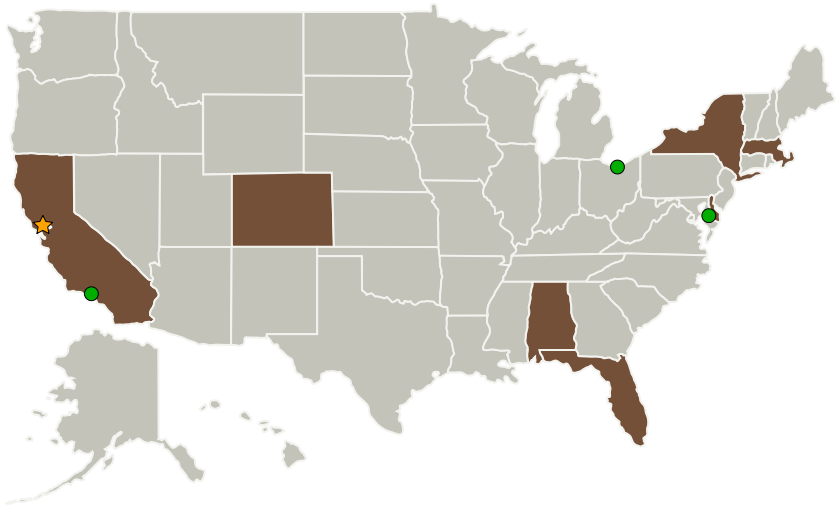
Project Introduction

The Cube Quest Challenge is designed to foster innovations in small spacecraft propulsion and communications techniques, in particular CubeSats in lunar orbit or beyond 4,000,000 kilometers from Earth.

Anticipated Benefits

The Challenge is designed to foster innovations in propulsion and communications of "shoebox-sized" CubeSats beyond Low Earth Orbit- in lunar orbit and beyond (4,000,000 kilometers from Earth).

Primary U.S. Work Locations and Key Partners



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Organizations Performing Work	Role	Type	Location
★Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Air Force Research Laboratory(AFRL)	Supporting Organization	US Government	Notre Dame, Indiana
Federal Communications Commission	Supporting Organization	US Government	
●Glenn Research Center(GRC)	Supporting Organization	NASA Center	Cleveland, Ohio
●Jet Propulsion Laboratory(JPL)	Supporting Organization	NASA Center	Pasadena, California
San Jose State University	Supporting Organization	Academia Asian American Native American Pacific Islander (AANAPISI), Hispanic Serving Institutions (HSI)	San Jose, California
●Wallops Flight Facility(WFF)	Supporting Organization	NASA Facility	Wallops Island, Virginia

Primary U.S. Work Locations	
Alabama	California
Colorado	Delaware
Florida	Massachusetts
New York	

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Prizes, Challenges, and Crowdsourcing

Project Management

Program Director:

Amy P Kaminski

Program Manager:

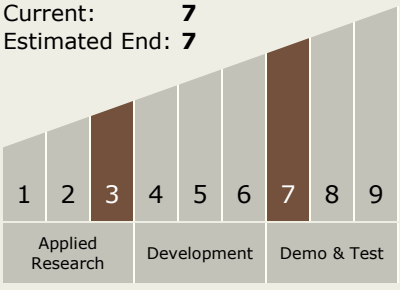
Monserrate C Roman

Project Manager:

Monserrate C Roman

Technology Maturity (TRL)

Start: **3**
Current: **7**
Estimated End: **7**



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Project Transitions

November 2014: Project Start

September 2023: Closed out

Closeout Link: https://www.nasa.gov/press-release/three-diy-cubesats-score-rides-on-nasa-s-first-flight-of-orion-space-launch-system

Project Website:

https://www.nasa.gov/directorates/spacetech/centennial_challenges/index.htm

Technology Areas

Primary:

- TX01 Propulsion Systems
  - TX01.2 Electric Space Propulsion
    - TX01.2.2 Electrostatic

Target Destinations

The Moon, Mars